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2: [Nawagitgul P, Hamns PA, Morozov I, Thacker BJ, Sorden SD, Lekcharoensuk C, Paul PS.](#)

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
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
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Evaluation of a porcine circovirus type 2-specific antigen-capture enzyme-linked immunosorbent assay for the diagnosis of postweaning multisystemic wasting syndrome in pigs: comparison with virus isolation, immunohistochemistry, and the polymerase chain reaction.

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Production, preliminary characterisation and applications of monoclonal antibodies to porcine circovirus.

Vet Immunol Immunopathol. 1994 Nov;43(4):357-71.

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A sequential study of experimental infection of pigs with porcine circovirus and porcine parvovirus: immunostaining of cryostat sections and virus isolation.

J Vet Med B Infect Dis Vet Public Health. 2000 Mar;47(2):81-94.

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Can J Vet Res. 2003 May;67(2):108-13.

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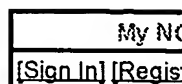
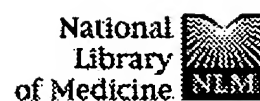
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## Production, preliminary characterisation and applications of monoclonal antibodies to porcine circovirus.

Allan GM, Mackie DP, McNair J, Adair BM, McNulty MS.

Veterinary Sciences Division, Department of Agriculture, Stormont, Belfast, UK.

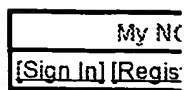
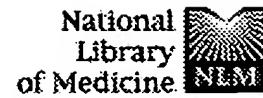
The preparation of monoclonal antibodies (mAbs) to porcine circovirus is described. Preliminary characterisation was carried out on nine mAbs obtained from two fusions and included isotyping, virus neutralisation assays and indirect immunofluorescence staining patterns obtained following immunostaining of both a porcine circovirus (PCV)-persistently infected pig kidney (PK/15/W) and Vero (Vero-PCV) cell line. Significant differences in the staining patterns were observed in both cell lines which appeared to be dependent on the subculture status of the Vero-PCV cultures. The development of a mAb-based antigen capture enzyme linked immunosorbent assay (ELISA) as an aid to virus purification is also described. The use of mAbs for the detection of PCV antigen in cryostat sections from a pig experimentally infected with the virus leading to identification of the sites of replication of PCV is also reported.

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## Porcine circovirus antigens in PK-15 cell line (ATCC CCL-33) and evidence of antibodies to circovirus in Canadian pigs.

Dulac GC, Afshar A.

Agriculture Canada, Animal Diseases Research Institute, NEPEAN, Ontario.

Permanent infection of a PK-15 (ATCC CCL-33) cell line by the porcine circovirus was demonstrated. This virus appears to be common in the Canadian swine population as indicated by the presence of antibodies detected by indirect immunofluorescence or immunoperoxidase tests in the serum of culled sows and sows in commercial herds. One source of the PK-15 cell line was found to be free of circovirus antigen.

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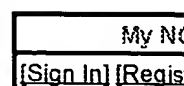
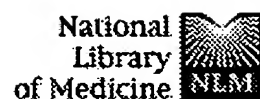
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## Evaluation of a gp 55 (E2) recombinant-based ELISA for the detection of antibodies induced by classical swine fever virus.

Muller A, Depner KR, Liess B.

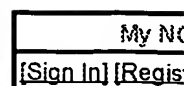
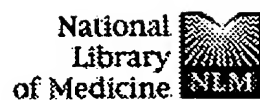
Institute of Virology, Hannover Veterinary School, Germany.

An enzyme-linked immunosorbent assay (ELISA) for the detection of antibodies against classical swine fever virus (CSFV) based on the competition of the serum antibodies with a CSFV-specific monoclonal antibody directed against the viral glycoprotein gp 55 (E2), has been evaluated. A total of 553 sera obtained from pigs experimentally infected in groups with different pestiviruses were included in this study. The ELISA was applied to a group of sera collected from pigs prior to pestivirus inoculation and therefore expected to have no detectable CSFV neutralizing antibodies. The specificity of the ELISA was calculated to range between 93% and 98%. The sensitivity of the ELISA was determined by testing predominantly sera of pigs exposed to CSFV and exhibiting CSFV neutralizing antibodies. When the cut-off level was reduced by 10%, the average sensitivity increased from 60% to 70% for the groups of sera tested. The ELISA was able to discriminate between CSFV and bovine viral diarrhoea virus (BVDV) induced antibodies.

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INVENTOR: ALLAN, G M; AUDONNET, J F ; CHAPPUIS, G E ; CHARREYRE, C E ; CLARK, E ; ELLIS, J A ; HAINES, D ; HARDING, J ; HASSARD, L ; KRAKOWKA, G S ; MCNEILLY, F ; MEEHAN, B ; AUDONNET, J ; MEEHAM, B ; MOORE, G A

PRIORITY-DATA: 2000US-0583350 (May 31, 2000), 1999US-151564P (August 31, 1999)

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	PubC	Draw D
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☐ 2. Document ID: US 20040258715 A1, WO 9918214 A1, AU 9893555 A, FR 2776294 A1, EP 1019510 A1, BR 9812845 A, HU 200003756 A2, CN 1278301 A, KR 2001030930 A, JP

2001519159 W, US 6368601 B1, MX 2000003263 A1, US 6391314 B1, US 20020146432 A1, EP 1281760 A1, AU 756554 B, EP 1019510 B1, DE 69816460 E, US 6660272 B2, EP 1386617 A1, ES 2203984 T3, AU 2003248395 A1, AU 2002302120 A1, US 20040132178 A1

L23: Entry 2 of 4

File: DWPI

Dec 23, 2004

DERWENT-ACC-NO: 1999-264024

DERWENT-WEEK: 200504

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TITLE: New type II porcine circovirus

INVENTOR: CHAPPUIS, G E; CHARREYRE, C E ; CLARK, E ; ELLIS, J ; GORDON, A ; HAINES, D ; HARDING, J ; HASSARD, L ; MEEHAN, B ; ALLAN, G ; BABIUK, L A ; CHAPUIS, G E ; MCNEILLY, F ; POTTER, A A ; WANG, L ; WILLSON, P ; MC NEILLY, F

PRIORITY-DATA: 1998FR-0003707 (March 20, 1998), 1997FR-0012382 (October 3, 1997), 1998FR-0000873 (January 22, 1998), 2003AU-0248395 (September 25, 2003), 1998FR-0008777 (July 6, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040258715 A1</u>	December 23, 2004		000	A61K039/12
<u>WO 9918214 A1</u>	April 15, 1999	F	056	C12N015/34
<u>AU 9893555 A</u>	April 27, 1999		000	
<u>FR 2776294 A1</u>	September 24, 1999		000	C07K014/01
<u>EP 1019510 A1</u>	July 19, 2000	F	000	C12N015/34
<u>BR 9812845 A</u>	August 8, 2000		000	C12N015/34
<u>HU 200003756 A2</u>	February 28, 2001		000	C12N015/34
<u>CN 1278301 A</u>	December 27, 2000		000	C12N015/34
<u>KR 2001030930 A</u>	April 16, 2001		000	C12N015/34
<u>JP 2001519159 W</u>	October 23, 2001		054	C12N015/09
<u>US 6368601 B1</u>	April 9, 2002		000	A61K039/12
<u>MX 2000003263 A1</u>	June 1, 2001		000	A61K039/12
<u>US 6391314 B1</u>	May 21, 2002		000	A61K039/12
<u>US 20020146432 A1</u>	October 10, 2002		000	C07K001/00
<u>EP 1281760 A1</u>	February 5, 2003	F	000	C12N015/34
<u>AU 756554 B</u>	January 16, 2003		000	C12N015/34
<u>EP 1019510 B1</u>	July 16, 2003	F	000	C12N015/34
<u>DE 69816460 E</u>	August 21, 2003		000	C12N015/34
<u>US 6660272 B2</u>	December 9, 2003		000	A61K039/12
<u>EP 1386617 A1</u>	February 4, 2004	F	000	A61K039/12
<u>ES 2203984 T3</u>	April 16, 2004		000	C12N015/34
<u>AU 2003248395 A1</u>	October 23, 2003		000	C12N015/34
<u>AU 2002302120 A1</u>	March 20, 2003		000	C12N015/34
<u>US 20040132178 A1</u>	July 8, 2004		000	C12P001/00

1281760 A1 , AU 756554 B , EP 1019510 B1 INT-CL (IPC): A01 N 63/00; A01 N 65/00; A61 K 31/70; A61 K 38/00; A61 K 39/12; A61 K 39/125; A61 K 39/255; A61 K 39/295 ; A61 K 39/40; A61 K 39/42; A61 K 45/00; A61 K 48/00; C07 H 21/04; C07 K 1/00; C07 K 14/00; C07 K 14/01; C07 K 16/08; C07 K 17/00; C12 N 5/00; C12 N 5/02; C12 N 7/00; C12 N 7/01; C12 N 7/02; C12 N 7/04; C12 N 7/06; C12 N 7/08; C12 N 15/00; C12 N 15/09; C12 N 15/34; C12 N 15/63; C12 N 15/70; C12 N 15/74; C12 N 15/86; C12 P 1/00;

C12 P 21/08; C12 Q 1/68; C12 Q 1/70; G01 N 33/53; G01 N 33/569

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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### 3. Document ID: FR 2769322 A1

L23: Entry 3 of 4

File: DWPI

Apr 9, 1999

DERWENT-ACC-NO: 1999-246948

DERWENT-WEEK: 200445

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TITLE: New type II porcine circovirus, used for, e.g. passive immunization of pregnant sows

INVENTOR: ALLAN, G; CHAPPUIS, G E ; CHARREYRE, C E ; CLARK, E ; ELLIS, J ; HAINES, D ; HARDING, J ; HASSARD, L ; MEEHAN, B

PRIORITY-DATA: 1997FR-0012382 (October 3, 1997)

#### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>FR 2769322 A1</u>	April 9, 1999		048	C12N007/00

INT-CL (IPC): A61 K 39/12; A61 K 48/00; C07 H 21/00; C07 K 14/01; C07 K 16/08; C12 N 7/00; C12 N 15/34; C12 N 15/85; G01 N 33/569

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Draw D
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### 4. Document ID: US 20040258715 A1, FR 2769321 A1, BR 9812845 A, CN 1278301 A, KR 2001030930 A, DE 69816460 E, ES 2203984 T3

L23: Entry 4 of 4

File: DWPI

Dec 23, 2004

DERWENT-ACC-NO: 1999-246947

DERWENT-WEEK: 200504

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TITLE: New porcine circovirus from animals with porcine systemic wasting syndrome

INVENTOR: CHAPPUIS, G E; CHARREYRE, C E ; CLARK, E ; ELLIS, J ; GORDON, A ; HAINES, D ; HARDING, J ; HASSARD, L ; MCNEILLY, F ; MEEHAN, B ; ALLAN, G

PRIORITY-DATA: 1997FR-0012382 (October 3, 1997), 1998FR-0000873 (January 22, 1998), 1998FR-0003707 (March 20, 1998)

#### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040258715 A1</u>	December 23, 2004		000	A61K039/12
<u>FR 2769321 A1</u>	April 9, 1999		035	C12N007/00
<u>BR 9812845 A</u>	August 8, 2000		000	C12N015/34
<u>CN 1278301 A</u>	December 27, 2000		000	C12N015/34
<u>KR 2001030930 A</u>	April 16, 2001		000	C12N015/34

<u>DE 69816460 E</u>	August 21, 2003	000	C12N015/34
<u>ES 2203984 T3</u>	April 16, 2004	000	C12N015/34

INT-CL (IPC): A61 K 39/12; A61 K 48/00; C07 H 21/00; C07 K 14/01; C07 K 16/08; C12 N 7/00; C12 N 7/01; C12 N 15/34; C12 N 15/85; C12 Q 1/68; G01 N 33/53; G01 N 33/569

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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Terms	Documents
Allan G.in. and virus	4

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[Previous Page](#)   [Next Page](#)   [Go to Doc#](#)

## Hit List

Clear

Generate Collection

Print

Fwd Refs

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### Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 6841364 B2

L10: Entry 1 of 5

File: USPT

Jan 11, 2005

US-PAT-NO: 6841364

DOCUMENT-IDENTIFIER: US 6841364 B2

TITLE: Infectious cDNA clones of porcine reproductive and respiratory syndrome virus and expression vectors thereof

DATE-ISSUED: January 11, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yuan; Shishan	St. Paul	MN		
Ma; Shi-Jun	Shoreview	MN		

US-CL-CURRENT: 435/91.1; 435/69.1, 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	ROMC	Draws De
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☐ 2. Document ID: US 6660272 B2

L10: Entry 2 of 5

File: USPT

Dec 9, 2003

US-PAT-NO: 6660272

DOCUMENT-IDENTIFIER: US 6660272 B2

TITLE: Porcine circoviruses, vaccines and diagnostic reagents

DATE-ISSUED: December 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allan; Gordon	Belfast			GB
Meehan; Brian	Belfast			GB
Clark; Edward	Saskatoon			CA
Ellis; John	Saskatoon			CA
Haines; Deborah	Saskatoon			CA
Hassard; Lori	Saskatoon			CA
Harding; John	Humboldt			CA

Charreyre; Catherine Elisabeth	Saint-Laurent de Mure	FR
Chappuis; Gilles Emile	Lyons	FR
McNeilly; Francis	Newtonards	GB

US-CL-CURRENT: [424/204.1](#); [424/278.1](#), [424/281.1](#), [424/93.1](#), [435/235.1](#), [435/236](#),  
[435/237](#), [435/238](#), [435/239](#), [536/23.72](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MM	Draw
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☐ 3. Document ID: US 6497883 B1

L10: Entry 3 of 5

File: USPT

Dec 24, 2002

US-PAT-NO: 6497883

DOCUMENT-IDENTIFIER: US 6497883 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Porcine circovirus recombinant poxvirus vaccine

DATE-ISSUED: December 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bublot; Michel	Delmar	NY		
Perez; Jennifer M.	East Nassau	NY		
Charreyre; Catherine E.	St.-Laurent De Mure			FR

US-CL-CURRENT: [424/204.1](#); [424/199.1](#), [424/209.1](#), [424/218.1](#), [435/235.1](#), [435/320.1](#),  
[536/23.72](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	MM	Draw
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☐ 4. Document ID: US 6368601 B1

L10: Entry 4 of 5

File: USPT

Apr 9, 2002

US-PAT-NO: 6368601

DOCUMENT-IDENTIFIER: US 6368601 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Porcine circovirus vaccine and diagnostics reagents

DATE-ISSUED: April 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allan; Gordon	Belfast			GB
Meehan; Brian	Belfast			GB
Clark; Edward	Saskatoon			CA
Ellis; John	Saskatoon			CA

Haines; Deborah	Saskatoon	CA
Hassard; Lori	Saskatoon	CA
Harding; John	Humboldt	CA
Charreyre; Catherine Elisabeth	Saint-Laurent de Mure	FR
Chappuis; Gilles Emile	Lyons	FR
McNeilly; Francis	Newtownards	GB

US-CL-CURRENT: [424/204.1](#); [435/235.1](#), [435/320.1](#), [435/5](#), [514/44](#), [536/23.1](#), [536/23.4](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWNC	Draw De
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☐ 5. Document ID: US 6217883 B1

L10: Entry 5 of 5

File: USPT

Apr 17, 2001

US-PAT-NO: 6217883

DOCUMENT-IDENTIFIER: US 6217883 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Porcine circovirus and paravovirus vaccine

DATE-ISSUED: April 17, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allan; Gordon Moore	Belfast			GB
Meehan; Brian Martin	Belfast			GB
Ellis; John Albert	Saskatchewan			CA
Krakowka; George Steven	Columbus	OH		
Audonnet; Jean-ChrJistophe Francis	Lyons			FR

US-CL-CURRENT: [424/202.1](#); [424/199.1](#), [424/201.1](#), [424/209.1](#), [424/220.1](#), [424/229.1](#), [424/257.1](#), [424/264.1](#), [424/815](#), [435/235.1](#), [435/810](#), [514/44](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWNC	Draw De
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Terms	Documents
circovirus type II	5

Display Format:  [Previous Page](#)[Next Page](#)[Go to Doc#](#)



## Hit List

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Print

Fwd Refs

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### Search Results - Record(s) 1 through 10 of 30 returned.

☐ 1. Document ID: US 20050058653 A1

L57: Entry 1 of 30

File: PGPB

Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050058653

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050058653 A1

TITLE: Prevention of myocarditis, abortion and intrauterine infection associated with porcine circovirus-2

PUBLICATION-DATE: March 17, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ellis, John	Saskatoon	OH	CA	
Allan, Gordon Moore	Belfast		GB	
Meehan, Brian	Belfast		GB	
Clark, Edward	Saskatoon		CA	
Haines, Deborah	Saskatoon		CA	
Hassard, Lori	Saskatoon		CA	
Harding, John	Humboldt		CA	
Charreyre, Catherine Elisabeth	Saint-Laurent de Mure		FR	
Chappuis, Gilles Emile	Lyon		FR	
Krakowka, George Steve	Colombus		US	
Audonnet, Jean-Christophe Francis	Lyon		FR	
McNeilly, Francis	Newtonards		GB	

US-CL-CURRENT: 424/186.1; 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D.
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☐ 2. Document ID: US 20050031647 A1

L57: Entry 2 of 30

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050031647

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050031647 A1

TITLE: Lawsonia intracellularis of European origin and vaccines, diagnostic agents and methods of use thereof

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Roof, Michael B.	Ames	IA	US	
Kroll, Jeremy J.	Urbandale	IA	US	
Knittel, Jeffrey P.	Melbourne	FL	US	

US-CL-CURRENT: 424/234.1; 435/252.3, 435/320.1, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20050025806 A1

L57: Entry 3 of 30

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050025806

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050025806 A1

TITLE: Sustained release pharmaceutical composition

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Brandon, Malcolm	Bulleen	CT	AU	
Martinod, Serge R.	Groton		US	

US-CL-CURRENT: 424/423; 424/85.1, 514/12, 514/169, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20050008651 A1

L57: Entry 4 of 30

File: PGPB

Jan 13, 2005

PGPUB-DOCUMENT-NUMBER: 20050008651

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050008651 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: January 13, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Le Cann, Pierre	Pledran		FR	

Blanchard, Philippe	Plerin	FR
Hutet, Evelyne	Plerin	FR
Arnauld, Claire	Saint-Brieuc	FR
Truong, Catherine	Saint-Brieuc	FR
Mahe, Dominique	Saint-Carreuc	FR
Cariolet, Roland	Ploufragan	FR
Madec, Francois	Saint-Brieuc	FR

US-CL-CURRENT: 424/184.1; 424/199.1, 424/205.1, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 5. Document ID: US 20040265848 A1

L57: Entry 5 of 30

File: PGPB

Dec 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040265848

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040265848 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: December 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Cann, Pierre Le	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 435/6; 424/204.1, 435/325

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 6. Document ID: US 20040258715 A1

L57: Entry 6 of 30

File: PGPB

Dec 23, 2004

PGPUB-DOCUMENT-NUMBER: 20040258715

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040258715 A1

TITLE: Porcine circoviruses, vaccines and diagnostic reagents

PUBLICATION-DATE: December 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Allan, Gordon	Belfast		GB	
Meehan, Brian	Belfast		GB	
Clark, Edward	Saskatoon		CA	
Ellis, John	Saskatoon		CA	
Haines, Deborah	Saskatoon		CA	
Hassard, Lori	Saskatoon		CA	
Harding, John	Humboldt		CA	
Charreyre, Catherine Elisabeth	Saint-Laurent de Mure		FR	
Chappuis, Gilles Emile	Lyon		FR	
McNeilly, Francis	Newtonards		GB	

US-CL-CURRENT: 424/204.1; 435/235.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw D
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☐ 7. Document ID: US 20040253270 A1

L57: Entry 7 of 30

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040253270

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040253270 A1

TITLE: Chimeric infectious DNA clones, chimeric porcine circoviruses and uses thereof

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Meng, Xiang-Jin	Blacksburg	VA	US	
Fenaux, Martijn	Redwood City	CA	US	
Halbur, Patrick G.	Ames	IA	US	

US-CL-CURRENT: 424/199.1; 435/235.1, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw D
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☐ 8. Document ID: US 20040247617 A1

L57: Entry 8 of 30

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040247617

PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040247617 A1

TITLE: Fusion antigen used as vaccine

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Liao, Chao-Wei	Chunan Town		TW	
Weng, Chung-Nan	Chunan Town		TW	

US-CL-CURRENT: 424/192.1; 435/320.1, 435/325, 435/69.3, 530/350, 536/23.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: US 20040161410 A1

L57: Entry 9 of 30

File: PGPB

Aug 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040161410  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040161410 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: August 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Cann, Pierre Le	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 424/93.2; 424/186.1, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10. Document ID: US 20040132178 A1

L57: Entry 10 of 30

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040132178  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040132178 A1

TITLE: Postweaning multisystemic wasting syndrome and porcine circovirus from pigs

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Haines, Deborah	Saskatoon	TX	CA	
Allan, Gordon	Belfast		GB	
Ellis, John	Saskatoon		CA	
Meehan, Brian	Belfast		GB	
Clark, Edward	Saskatoon		CA	
Hassard, Lori	Saskatoon		CA	
Harding, John	Humboldt		CA	
Charreyre, Catherine Elisabeth	Saint-Laurent de Mure		FR	
Chappuis, Gilles Emile	Lyon		FR	
McNeilly, Francis	Newtonards		GB	
Wang, Li	Grand Prairie		US	
Babiuk, Lorne A.	Saskatoon		CA	
Potter, Andrew A.	Saskatoon		CA	
Willson, Philip	Saskatoon		CA	

US-CL-CURRENT: [435/320.1](#); [424/147.1](#), [424/159.1](#), [424/163.1](#), [424/216.1](#), [424/229.1](#),  
[424/271.1](#), [424/93.1](#), [424/93.2](#), [424/93.21](#), [424/93.3](#), [424/93.6](#), [435/325](#), [435/41](#),  
[530/350](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	MMIC	Draw Data
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
circovirus.clm.	30

Display Format:

[Previous Page](#)   [Next Page](#)   [Go to Doc#](#)

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 11 through 20 of 30 returned.

☐ 11. Document ID: US 20040091502 A1

L57: Entry 11 of 30

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040091502  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040091502 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Le Cann, Pierre	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnould, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 424/186.1; 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. Data
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☐ 12. Document ID: US 20040076635 A1

L57: Entry 12 of 30

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040076635  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040076635 A1

TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Le Cann, Pierre	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 424/186.1; 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 20040071728 A1

L57: Entry 13 of 30

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040071728

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040071728 A1

TITLE: Vaccine for congenital tremors in pigs

PUBLICATION-DATE: April 15, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mittal, Suresh K	West Lafayette	IN	US	
Stevenson, Gregory W.	West Lafayette	IN	US	
Choi, Jiwon	West Lafayette	IN	US	
Kiupel, Matti	Lansing	MI	US	
Kanitz, Charles L.	Lafayette	IN	US	

US-CL-CURRENT: 424/186.1; 435/235.1, 435/320.1, 435/325, 435/5, 435/69.1, 530/350, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 20040062775 A1

L57: Entry 14 of 30

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040062775

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040062775 A1



TITLE: Circovirus sequences associated with piglet weight loss disease (PWD)

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jestin, Andre	Saint-Brieuc		FR	
Albina, Emmanuel	Tregueux		FR	
Le Cann, Pierre	Pledran		FR	
Blanchard, Philippe	Plerin		FR	
Hutet, Evelyne	Plerin		FR	
Arnauld, Claire	Saint-Brieuc		FR	
Truong, Catherine	Saint-Brieuc		FR	
Mahe, Dominique	Saint-Carreuc		FR	
Cariolet, Roland	Ploufragan		FR	
Madec, Francois	Saint-Brieuc		FR	

US-CL-CURRENT: 424/186.1; 424/93.2, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 20040009953 A1

L57: Entry 15 of 30

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009953

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009953 A1

TITLE: Antimicrobial charged polymers that exhibit resistance to lysosomal degradation during kidney filtration and renal passage, compositions and method of use thereof

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Comper, Wayne D.	North Ringwood, Victoria		AU	

US-CL-CURRENT: 514/54

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 20030186307 A1

L57: Entry 16 of 30

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030186307

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030186307 A1

TITLE: Method for growing or for removing circoviruses from biological material

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bernhardt, Dieter	Coelbe		DE	
Weimer, Thomas	Gladenbach		DE	
Groener, Albrecht	Marburg		DE	

US-CL-CURRENT: 435/6; 424/204.1, 435/235.1, 435/5, 435/7.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 17. Document ID: US 20030170616 A1

L57: Entry 17 of 30

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170616

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170616 A1

TITLE: Postweaning multisystemic wasting syndrome virus from pigs

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Li	Saskatoon		CA	
Babiuk, Lorne A.	Saskatoon		CA	
Potter, Andrew A.	Saskatoon		CA	
Willson, Philip	Saskatoon		CA	

US-CL-CURRENT: 435/5; 435/6, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 18. Document ID: US 20030170270 A1

L57: Entry 18 of 30

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170270

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170270 A1

TITLE: Chimeric infectious DNA clones, chimeric porcine circoviruses and uses thereof

PUBLICATION-DATE: September 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Meng, Xiang-Jin	Blacksburg	VA	US	
Fenaux, Martijn	Blacksburg	VA	US	
Halbur, Patrick G.	Ames	IA	US	

US-CL-CURRENT: 424/204.1; 424/199.1, 424/93.2, 435/320.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 19. Document ID: US 20030143741 A1

L57: Entry 19 of 30

File: PGPB

Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030143741

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030143741 A1

TITLE: Rolling circle replicon expression vector

PUBLICATION-DATE: July 31, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Palmer, Kenneth E.	Vacaville	CA	US	
Pogue, Gregory P.	Vacaville	CA	US	

US-CL-CURRENT: 435/456; 435/320.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 20. Document ID: US 20030138916 A1

L57: Entry 20 of 30

File: PGPB

Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138916

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030138916 A1

TITLE: Infectious cDNA clones of porcine reproductive and respiratory syndrome virus and expression vectors thereof

PUBLICATION-DATE: July 24, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Yuan, Shishan	St. Paul	MN	US	
Ma, Shi-Jun	Shoreview	MN	US	

US-CL-CURRENT: 435/91.1; 424/204.1, 435/69.3, 435/91.33, 536/23.74

## WEST Search History





DATE: Wednesday, April 13, 2005

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
	<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L76	US-20040258715-A1.did.	1
<input type="checkbox"/>	L75	US-20040258715-A1.did.	1
<input type="checkbox"/>	L74	US-20040258715-A1.did.	1
<input type="checkbox"/>	L73	US-20040258715-A1.did.	1
	<i>DB=DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L72	PmWs and virus	5
<input type="checkbox"/>	L71	PWD and virus	0
<input type="checkbox"/>	L70	PWD and circovirus	0
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L69	PWD and circovirus	2
<input type="checkbox"/>	L68	PWD and virus	29
<input type="checkbox"/>	L67	PWD	383
<input type="checkbox"/>	L66	6703023.pn.	1
<input type="checkbox"/>	L65	PCVII	1
<input type="checkbox"/>	L64	PCVI	5
<input type="checkbox"/>	L63	Circovirus I.clm.	0
<input type="checkbox"/>	L62	Circovirus type I.clm.	0
<input type="checkbox"/>	L61	Circovirus and method.clm.	22
<input type="checkbox"/>	L60	Circovirus and antibodies.clm.	7
<input type="checkbox"/>	L59	Circovirus and antibodies	30
<input type="checkbox"/>	L58	6573081.pn.	1
	<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L57	circovirus.clm.	30
<input type="checkbox"/>	L56	circovirus	114
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L55	wang li.in. and virus	4
<input type="checkbox"/>	L54	wang li.in. and circovirus	0
<input type="checkbox"/>	L53	wang li.in.	164
<input type="checkbox"/>	L52	6517843.pn.	1
<input type="checkbox"/>	L51	621883.pn.	0
<input type="checkbox"/>	L50	Ellis John.in. and circovirus	5

<input type="checkbox"/>	L49	Ellis John.in.	194
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<input type="checkbox"/>	L48	US-20040132178-A1.did.	1
<input type="checkbox"/>	L47	US-20040132178-A1.did.	1
<input type="checkbox"/>	L46	US-20040258715-A1.did.	1
<input type="checkbox"/>	L45	US-20040258715-A1.did.	1
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L44	US-6517843-B1.did.	1
		<i>DB=EPAB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L43	EP-1036180-A2.did.	0
<input type="checkbox"/>	L42	WO-9929871-A2.did.	1
<input type="checkbox"/>	L41	WO-9929871-A2.did.	1
		<i>DB=DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L40	Jestin a.in.	2
		<i>DB=EPAB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L39	WO-9918214-A1.did.	1
<input type="checkbox"/>	L38	WO-9918214-A1.did.	1
		<i>DB=DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L37	L36 and virus	5
<input type="checkbox"/>	L36	PMWS	45
<input type="checkbox"/>	L35	WO0089046699	0
<input type="checkbox"/>	L34	WO89046699	0
<input type="checkbox"/>	L33	L32 and L31	2154
<input type="checkbox"/>	L32	1989	4294967295
<input type="checkbox"/>	L31	Hepatitis C	2154
<input type="checkbox"/>	L30	HCV	1270
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L29	6287856.pn.	1
<input type="checkbox"/>	L28	6492343.pn.	1
<input type="checkbox"/>	L27	piglet weight loss disease	2
		<i>DB=PGPB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L26	piglet weight loss disease	6
<input type="checkbox"/>	L25	wang Li.in. and virus	6
<input type="checkbox"/>	L24	wang.in. and virus	794
		<i>DB=DWPI; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L23	Allan G.in. and virus	4
<input type="checkbox"/>	L22	Allen G.in. and virus	1
<input type="checkbox"/>	L21	Allen G.in. and circovirus	0

<input type="checkbox"/>	L20	Allen G.in.	253
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L19	PCVB	4
<input type="checkbox"/>	L18	circovirus type II	5
<input type="checkbox"/>	L17	circovirus type B	1
<input type="checkbox"/>	L16	circovirus	32
<input type="checkbox"/>	L15	6703023.pn.	1
	<i>DB=DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L14	Allen G.in. and virus	1
<input type="checkbox"/>	L13	Allen G.in. and circovirus	0
<input type="checkbox"/>	L12	Allen G.in.	253
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L11	PCVB	4
<input type="checkbox"/>	L10	circovirus type II	5
<input type="checkbox"/>	L9	circovirus type B	1
<input type="checkbox"/>	L8	circovirus	32
<input type="checkbox"/>	L7	6703023.pn.	1
<input type="checkbox"/>	L6	L1 and antibodies	1
<input type="checkbox"/>	L5	L1 and quantify	0
<input type="checkbox"/>	L4	L1 and quantifying	0
<input type="checkbox"/>	L3	L2 and quantifying	0
<input type="checkbox"/>	L2	L1 and detecting	1
<input type="checkbox"/>	L1	6703023.pn.	1

END OF SEARCH HISTORY